What is claimed is:

1. Camera apparatus comprising: a camera for photographing a subject; a rotating body for rotating said camera in order to track said subject; and a controller for controlling the motion of said rotating body and the photographing operation of the camera;

wherein said controller comprises:

operation determination means for analyzing and determining the input operation instruction information on said rotating body and said camera;

data holding means for holding the status information on the photographing operation of the camera;

main control means for calculating an optimum speed to track said subject based on the information output from said operation determination means and said data holding means and outputting the speed to said rotating body; and

drive means for driving said rotating body.

2. The camera apparatus according to claim 1, wherein said data holding means holds information on the distance from said camera to the subject obtained by way of focusing control as said status information to be output to said main control means.

3. The camera apparatus according to claim 1, wherein said data holding means holds information on the distance from said camera to the floor obtained by way of focusing control as said

status information to be output to said main control means.

4. The camera apparatus according to claim 1, wherein said data holding means holds information on the orientation of said rotating body in vertical direction as said status information to be output to said main control means.

5. The camera apparatus according to claim 1, wherein said data holding means holds information on the orientation of said rotating body in horizontal direction as said status information to be output to said main control means.

6. The camera apparatus according to claim 1, wherein said data holding means holds information on the motion detection information on said rotating body as said status information to be output to said main control means.

7. The camera apparatus according to claim 1, wherein said data holding means holds said user-specific information as said status information to be output to said main control means.

8. The camera apparatus according to claim 1, wherein said data holding means holds a combination of information on the distance to said subject, information on the distance to the floor, information on the orientation in vertical direction,

information on the orientation in horizontal direction, zooming magnification information as internal information of said camera, motion detection information, and user-specific information, as said status information to be output to said main control means.

9. The camera apparatus according to claim 1, wherein said data holding means holds a combination of said information on the distance to the subject, said information on the distance to the floor, said information on the orientation in vertical direction, said information on the orientation in horizontal direction, said zooming magnification information, said motion detection information, and said user-specific information, as said status information to be output to said main control means, in correspondence to a specific function.

10. The camera apparatus according to claim 1, wherein said data holding means holds all the information including said information on the distance to the subject, said information on the distance to the floor, said information on the orientation in vertical direction, said information on the orientation in horizontal direction, said zooming magnification information, said motion detection information, and said user-specific information, as said status information to be output to said main control means.

11. A camera system according to any one of claims 1 through 10, characterized in that said camera apparatus including a camera and a controller comprises:

a display unit for displaying said image information from the camera and at least any of said camera status information, operation instruction information, and user-specific information set to said camera in accordance with an instruction from the operation determination means and that

said controller comprises display signal generation means for displaying said information on said display unit.

12. The camera system according to claim 11, wherein said controller comprises:

transmission means for outputting said status information held by said data holding means to an input operation unit for inputting operation instruction information to said controller in order to perform operation on said rotating body and said camera and that

said controller outputs said internal information of said camera held by said data holding means to said input operation unit via said transmission means.

13. A method for controlling the camera system comprising: a camera for photographing a subject; a rotating body for rotating said camera in order to track said subject; a controller

for controlling the motion of said rotating body and the photographing operation of said camera; and an input operation unit for inputting operation instruction information to said controller in order to perform operation on said rotating body and said camera;

wherein said controller comprises: operation determination means for analyzing and determining said operation instruction information input from said input operation unit; data holding means for holding the status information on the photographing operation of the camera; main control means for calculating an optimum speed to track said subject based on the information from said operation determination means and said data holding means and outputting the speed to said rotating body; and drive means for driving said rotating body; and

said method uses said camera motion detection information and said information on the distance to the subject as information to be output from said data holding means to said main control means to control said rotating body so that said subject will first appear in the center of the angle of view.

14. A method for controlling the camera system comprising: a camera for photographing a subject, a rotating body for rotating said camera in order to track said subject; a controller for controlling the motion of said rotating body and the

photographing operation of said camera; and an input operation unit for inputting operation instruction information to said controller in order to perform operation on said rotating body and said camera;

wherein said controller comprises: operation determination means for analyzing and determining said operation instruction information input from said input operation unit; data holding means for holding the status information on the photographing operation of the camera; main control means for calculating an optimum speed to track said subject based on the information from said operation determination means and said data holding means and outputting the speed to said rotating body; and drive means for driving said rotating body; and

said method uses said camera motion detection information and said zooming magnification information as said internal information of the camera, as information to be output from said data holding means to said main control means, to control said rotating body so that said subject will first appear in the center of the angle of view.

15. A method for controlling the camera system comprising: a camera for photographing a subject, a rotating body for rotating said camera in order to track said subject; a controller for controlling the motion of said rotating body and the

photographing operation of said camera; and an input operation unit for inputting operation instruction information to said controller in order to perform operation on said rotating body and said camera; wherein

said controller comprises: operation determination means for analyzing and determining said operation instruction information input from said input operation unit; data holding means for holding the status information on the photographing operation of the camera; main control means for calculating an optimum speed to track said subject based on the information from said operation determination means and said data holding means and outputting the speed to said rotating body; and drive means for driving said rotating body; and

said method uses said camera motion detection information, said focusing information as internal information of the camera and said zooming magnification information as internal information of the camera, as information to be output from said data holding means to said main control means to control said rotating body so that said subject will first appear in the center of the angle of view.